

Proceedings of the 20th Annual Conference for the Australasian Association for Engineering Education

**6-9 December 2009 ■ The University of Adelaide, Adelaide,
Australia**

Engineering the Curriculum

All papers accepted for publication in the Proceedings of the 20th Annual Conference for the Australasian Association for Engineering Education were submitted as full papers and were double blind peer reviewed. Authors were given the opportunity to amend their paper in light of these reviews before the decision to accept and publish the paper was made. This process of reviewing is in accord with the criteria set by the Department of Education, Employment and Workplace Relations (DEEWR) of the Australian Government for published papers. Author: Australasian Association for Engineering Education Conference (20th:2009).

Editors: Dr Colin Kestell, Dr Steven Grainger, Professor John Cheung.

**Published in Australia by: The School of Mechanical Engineering, The University of Adelaide,
Adelaide, South Australia, Australia. ISBN 1 876346 59 0.**

Copyright © 2009 Australasian Association for Engineering Education. These proceedings are copyright. Apart from fair dealing for the purpose of private study, research, criticism or review as permitted under the Copyright Act, no part may be reproduced by any process without the written permission of the publisher. Responsibility for the contents of the articles rests upon the authors and not the publisher.

- Proceedings of the 20th annual conference for the Australasian Association for Engineering Education : engineering the curriculum : 6- 9 December 2009, The University of Adelaide, Adelaide, Australia.
- Annual Conference for the Australasian Association for Engineering Education (20th : 2009 : Adelaide)
- Adelaide, School of Mechanical Engineering, The University of Adelaide, 2010

Summary

- Proceedings of the 20th annual conference for the Australasian Association for Engineering Education, held at the University of Adelaide in December 2009. Papers were presented by Australian and international delegates. The conference was focused on the engineering curriculum in higher education.

Notes

- Online resource (1113 p.).
- For details of individual papers see entries under authors: Kacey Beddoes, Brent K Jesiek, Maura Borrego -- Kathirgamalingam Somasundaraswaran -- Siong Tang, James P Trevelyan -- Shana Krishnan, Zora Vrcelj -- William Daniels -- Oliver Moravcik, Jozef Peterka, Frantisek Hornak, Roman Hrmo -- Mirjam Jonkman, Friso De Boer -- Shaowen Qin, Carl Mooney -- Matthew Sorell -- John PT Mo, Peter Dawson, Muhamad Arfauz A Rahman -- Gavin Buskes, Brice Shen, Jamie Evans, Andrew Ooi -- Amelia Greig, Colin Kestell -- R Clark -- Prue Howard, Yvonne Toft -- David Dowling -- Raj Parthasarathy, Margaret Jollands -- Yan Zhuge, Julie E Mills -- David Buttsworth, Ray Malpress -- Siva Krishnan, Roger Gabb, Colleen Vale -- Paul Bronson -- Steven Goh, John Worden, Hong Zhou, Samuel Cubero -- Nickolas Falkner, Raja Sooriamurthi, Zbigniew Michalewicz -- Elise Fahey, Dorothy Missingham -- Chandra Vemury, Marie Devlin -- Venkata S. Chivukula, Michael Shur, Kai Liu -- Peter Hamilton -- Ken Sutton, Anthony Williams, William McBride -- David Dowling -- Alan Henderson, Marcus Guijt, Michael Breadmore, Anna L. Carew, Rosanne Guijt -- Sandra Cochrane, Steven Goh, Harry Ku -- Fidelis R. Mashiri, Natalie Brown -- M G Rasul, F Nouwens, Fae Martin, C Greensill, D Singh, Colin Kestell, Roger Hadgraft -- Graham Moore, Kaya Prpic -- Mahmoud Abdulwahed, Zoltan K Nagy, Richard Blanchard -- Selvan Pather, Hao Wang -- Ali Saleh, Anne Gardner -- Y T Gu, A Tan -- B D Collier -- Mark B Jaksa, Yien Lik Kuo -- Mahmoud Abdulwahed, Zoltan K Nagy -- Robert Ian Falconbridge, David Dowling -- C R Willis -- Katrina Falkner -- N J Kessissoglou, B G Prusty -- Arun Patil, Llewellyn Mann, Prue Howard, Fae Martin -- Rosalie Goldsmith, Carl Reidsema, Duncan Campbell, Roger Hadgraft, David C Levy -- Lynette Johns-Boast, Shayne Flint -- Crystal Forrester, Maziar Arjomandi -- M A Rhamdhani, K Salehi, Y C Wong -- B Beamish, M Kizil, Keith Willey, Anne Gardner -- Valerie Linton, Colin Kestell -- David Whitman, Dorothy

Missingham -- Jacek Uziak, M Tunde Oladiran, Sebusang E M Sebusang, Venkata Parasuram Kommula -- So Young Sohn, Angela Kim -- Tamath Rainsford, Brian Ng -- Eric Hamilton -- Harry Ku, Paul Wen, Wei Xiang, Steven Goh -- Charles Hacker -- Yasir M Al- Abdeli -- Hiyam Al-Kildar, Chris S Johnson -- Tom Molyneaux, John Brumley, Jie Li, Rebecca Gravina, Liam Ward -- Jie Li, Tom Molyneaux, Meaghan Botterill -- Elizabeth Smith, Julie E Mills -- John M Fielke, Diana Quinn -- Brad Stappenbelt, Chris Rowles -- Alan Jowitt -- Syed Mahfuzul Aziz -- Luis Alban -- Ashfaq Ahmed Chowdhury, M G Rasul, M M K Khan -- Steven Grainger, John Judge, Colin Kestell, Antoni Blazewicz -- Malcolm Allan, Colin U Chisholm - - David Lowe, Steve Murray, Lothar Weber, Michel de la Villefromoy, Archie Johnston, Euan Lindsay, Warren Nageswaran, Andrew Nafalski -- A H M Faisal Anwar, Euan Lindsay, Priyantha Ranjan Sarukkalige -- Bin Wang, Andrew Jennings -- Terry Lucke -- Gerard Rowe, Chris Smaill, Elizabeth Godfrey, Lawrence Carter, Bernard Guillemin, Mark Andrews, Waleed Abdulla -- Marwan M Shamel, Mushtak Al-Atabi -- Mahmoud Abdulwahed, Zoltan K Nagy, Richard Blanchard -- Holger R Maier - - Kel Jackson, Norman Lawrence -- Steven Davis -- Jo Devine -- George P Banky -- Mahmoud Abdulwahed, Zoltan K Nagy -- Anthony Williams -- Rod Paton -- Douglas McCarty -- Lydia Kavanagh, Liza O'Moore, Katherine Samuelowicz -- David McKechnie, Vineetha Kalavally -- Andrea Duff, Syed Mahfuzul Aziz, John M Fielke, Helen Johnston, Diana Quinn, Joanne Zucco -- Paul Denny, John Hamer, Andrew Luxton-Reilly -- Alcion Benedict Popp, David C Levy -- Craig Milne, Jennifer Thomas, Graham Dawson -- Duncan Campbell, Hilary Beck, David Buisson, Doug Hargreaves -- Duncan Campbell, Les Dawes, Hilary Beck, Sam Wallace, Marian Boman, Carl Reidsema -- Marcia R Murray, Te Kipa Kepa Brian Morgan -- Peter Hudson, Lyn D English, Les Dawes -- Raymond Lewis -- Thomas L Goldfinch, Anna L Carew, Giles Thomas -- Wageeh Boles, Prue Howard, Roger Hadgraft, Lesley Jolly -- Vinay Domal, James P Trevelyan -- R B Ward -- Jeremy Smith, Lizzie Brown, Amanda Cahill -- M A Rhamdhani, K Salehi, Y C Wong, A Kapoor, A Vakhguel -- Antonio Dottore -- Fazel Naghdy, Alison Hayes, Emily Purser -- Sang-Heon Lee, Elizabeth Smith, Vanessa Eley -- Rodney A Stewart, Kriengsak Panuwatwanich -- Kristy L Hansen, Morteza Shokri-Ghasabeh, Dorothy Missingham -- Colin Kestell, Maziar Arjomandi, Bassam Dally, Steven Grainger, Antoni Blazewicz -- Maura Borrego, Kacey Beddoes, Brent K Jesiek -- Nicki Sochacka, Joachim Walter -- Lesley Jolly, Lydia Kavanagh - - Paul Grimshaw, Colin Kestell, Maziar Arjomandi, Pascual Marques- Bruna, Shylie Mackintosh, Michel de Jonge -- Keith Willey, Anne Gardner -- Margaret Jollands, Neil McCallum, Julian Bondy -- Jane Stewart-Lewis, Tony Webb -- Iouri Belski -- Jennifer Johrendt, Pawan Singh, Schantal Hector, Michelle Watters, Geri Salinitri, Karen Benzinger, Arunita Jaekel, Derek Northwood -- Peter Gibbens, Eran Medagoda, Steven Dumble -- Lyn Brodie, Birgit Loch -- Adam C Thompson, Antony Dekkers -- Barbara A Koth, Megan Woodward, Yarran Iversen -- Linda Westphalen, James Knight -- John Russell, Katherine Legge, Joe Petrolito -- Rebekah Davis, Susan Savage -- Vernon Ireland -- Peter Childs, Peter Gibson -- Steven Goh, Frank Bullen -- Cheryl J Desha, Karlson Charlie Hargroves -- B G Prusty, O Ho, S Ho -- Tomasz P Bednarz, Con Caris, Octavian Dranga -- Andrew P Wandel -- Stephen C Russell -- Stephen C Russell -- Mark Ho -- Dietmar P F Moeller,

Hamid Vakilzadian -- Alexander A Kist -- Sally A Male, Mark B Bush, Elaine S Chapman -- Sally A Male, Mark B Bush, Kevin Murray -- Antoni Blazewicz, Colin Kestell, Steven Grainger -- Stephen C Russell -- Karlson Charlie Hargroves, Cheryl J Desha, Michael H Smith, Peter Stasinopoulos -- Lesley Jolly, Caroline Crosthwaite, Lizzie Brown -- Xiheng Hu, Oliver Abadeer, Caroline Yusman -- Paul Cooper, Maureen Bell -- Edward Palmer, David Walker -- Venkata Parasuram Kommula, M. Tunde Oladiran, Jacek Uziak -- Keith Willey, Anne Gardner -- Badri Basnet, Lyn Brodie, John Worden -- Ken Sutton, Anthony Williams, William McBride -- Ray Malpress, David Buttsworth -- John C K Cheung -- Giles Thomas, Alan Henderson, Thomas L Goldfinch -- J E McCredde, T Baldock -- Abigail Winter, Marisha McAuliffe, Gary Chadwick, Doug Hargreaves -- Stephen C Russell -- Jim S Jimmy Li, Sharmil Randhawa -- Mathew McCrohon, Peter Gibson -- Maziar Arjomandi, Colin Kestell, Paul Grimshaw -- S Watkins, G Pearson -- Ena Bhattacharyya, Rajeswary Appacutty Sargunan -- Iain Skinner, Pam Mort -- A L Simcock, J Shi -- Emily S E Tan, James P Trevelyan -- Ray Tolhurst -- Anthony Parker, Daniel McGill -- David Thorpe, Taryn Swan, Delphine Hannigan -- Elena Sitnikova, Andrea Duff -- Maura Borrego, Stephanie Cutler -- Lisa D McNair, Maura Borrego -- Christina Folauehola, Colin Kestell, Linda Westphalen, Dorothy Missingham -- Cristian Birzer, Carl Birzer -- Cristian Birzer, Rebecca Jones -- Thomas L Goldfinch, Anna L Carew.

ISBN

- 1876346590